



CITY OF MIDDLETON

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BUILDING OFFICIAL DETERMINATION (BOD#8)

Nails Vs Staples

Issue: Can staples be used in place of nails for exterior braced wall panels?

Rule: The International Residential Code does not address this issue. However, the International Code Council has specified in Table 8 of the ICC-ES ESR-1539 that staples have similar or greater fastener shear values when spaced correctly.

Application: In accordance with ICC-ES ESR-1539, staples must adhere to the following:

- 7/16" crown
- 14 or 16 gage
- Spaced at 3" on edges and 6" in the field
- Edge staples must be driven parallel to studs, not perpendicular
- Penetrate the studs at least 1"
- Driven FLUSH with the sheathing surface
- May not be substituted for nails if plans call for nails
- Must be galvanized for treated wood applications

Determination: Staples which match the above listed requirements may be used in place of 8d nails on shear panels up to 10' in height.

Chris Grooms, Building Official

8/24/2022

Date